

APPENDIX 5.1A

Calculation of Maximum Hourly, Daily, and Annual Emissions

Tables presented in this Appendix are as follows:

5.1A-1	Ammonia Slip Emissions
5.1A-2	Fuel Use Estimates
5.1A-3	Turbine/HRSG Emissions Estimates and Performance
5.1A-4	Turbine/HRSG Air Toxic Emissions Estimates
5.1A-5	Startup and Commissioning Emissions and Misc Support Data
5.1A-6	Cooling Tower PM10 Emissions Estimates
5.1A-7	Cooling Tower Air Toxic Emissions Estimates
5.1A-8	Auxiliary Boiler Emissions Estimates
5.1A-9	Auxiliary Boiler HAP Emissions
5.1A-10	Typical Natural Gas Analysis Data
5.1A-11	Turbine/HRSG GHG Emissions Estimates
5.1A-12	Fire Pump Engine Emissions

In addition to the above tables, other miscellaneous support data for the device-specific emissions calculations may also be included in this Appendix.

Table 5.1A-1 Ammonia Slip Emissions

Unit	Lbs/hr	Lbs/Day	Tons/Yr
Turbine/HRSG 1	14	336	59.5
Turbine/HRSG 2	14	336	59.5
Aux Boiler	0.11	0.88	0.022

Table 5.1A-2 Fuel Use Estimates

Unit	Per hour	Per Day	Per Yr
Turbine/HRSG 1	2.104 mmscf	50.5 mmscf	17,526 mmscf
Turbine/HRSG 2	2.104 mmscf	50.5 mmscf	17,526 mmscf
Aux Boiler	0.0495 mmscf	0.396 mmscf	19.95 mmscf
Fire Pump Engine	20 gals	20 gals	1000 gals